From the INTERNATIONAL SEARCHING ALITHORITY

To				PCT					
	see form	PCT/ISA/220		WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43 <i>bis.</i> 1)					
				Date of mailing (day/month/year) see form PCT/ISA/210 (second sheet)					
1	licant's or agent's file of form PCT/ISA/2			FOR FURTHER A See paragraph 2 belo					
	rnational application T/DK2004/00056		International filing date (c 27.08.2004	lay/month/year)	Priority date (day/month/year) 02.09.2003				
G0	International Patent Classification (IPC) or both national classification and IPC G01N15/12 Applicant								
	EMPAQ A/S								
2.	 Box No. I Basis of the opinion Box No. II Priority Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability Box No. IV Lack of unity of invention Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement Box No. VI Certain documents cited Box No. VII Certain defects in the international application Box No. VIII Certain observations on the international application 								
3.	3. For further details, see notes to Form PCT/ISA/220.								
	e and mailing addres			Authorized Officer					

Name and mailing address of the ISA:

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WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

IAP9 Rec'd PCT/PTO 01 MAR 2006

International application No. PCT/DK2004/000568

_	Bo	ox N	lo. I Basis of the opinion				
With regard to the language, this opinion has been established on the basis of the international a the language in which it was field, unless otherwise indicated under this item.							
		This opinion has been established on the basis of a translation from the original language into the followi language, which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).					
2	. Wi ne	With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:					
	a. type of material:						
			a sequence listing				
			table(s) related to the sequence listing				
	b. format of material:						
			in written format				
			in computer readable form				
	c. time of filing/furnishing:						
			contained in the international application as filed.				
			filed together with the international application in computer readable form.				
			furnished subsequently to this Authority for the purposes of search.				
3.		ha co	addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto is been filed or furnished, the required statements that the information in the subsequent or additional pies is identical to that in the application as filed or does not go beyond the application as filed, as propriate, were furnished.				
4	٨٨	d:4: _	nal comments:				

_	Ro	x No. II	Priority		· · · · · · · · · · · · · · · · · · ·					
1.	☐ The following document has not been furnished:									
		☒	© copy of the earlier application whose priority has been claimed (Rule 43bis.1 and 66.7(a)).							
			translation of the earlier application whose priority has been claimed (Rule 43bis.1 and 66.7(b)).							
	Consequently it has not been possible to consider the validity of the priority claim. This opinion has nevertheless been established on the assumption that the relevant date is the claimed priority date.									
2.	This opinion has been established as if no priority had been claimed due to the fact that the priority claim has been found invalid (Rules 43 <i>bis</i> .1 and 64.1). Thus for the purposes of this opinion, the international filing date indicated above is considered to be the relevant date.									
3.	3. Additional observations, if necessary:									
			,	•						
-	Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement									
1		tement	,,							
٠.	Olai	Cincin								
	Nov	elty (N)		Yes:	Claims	2,8-10				
				No:	Claims	1,3-7				
Inve		ventive step (IS)		Yes:	Claims					
			,	No:	Claims	1-10				
	lad:	otrial a-	mliochilit. (IA)	Vasi	Olaima	4.40				
	mul	ısınaı ap	plicability (IA)	Yes: No:	Claims Claims	1-10				
				INO.	Ciainis					

2. Citations and explanations

see separate sheet

Re Item V

Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

Reference is made to the following documents:

D1: GB 1 457 657 (COULTER ELECTRONICS) 8 December 1976 (1976-12-08)

D2: US 3 801 904 A (HOGG WALTER R ET AL) 2 April 1974 (1974-04-02)

D3: US 3 502 993 A (SIEMENS AG) 24 March 1970 (1970-03-24)

1. The present application does not meet the criteria of Article 33(1) PCT, because the subject-matter of claim 1 is not new in the sense of Article 33(2) PCT.

The document D1 which refers to classifying particles into discrete particle-size ranges for determining their size distribution by means of a Coulter counter discloses the following technical features of claim 1 (the references in parentheses applying to this document):

A pulse height analyser for determination of the pulse height distribution of electronic pulses (page 1, I. 32-52) comprising

a set of comparators with a common input for analogue to digital conversion of the electronic pulses (p. 2, l. 63-95; p. 3, l. 25-40);

a set of latches wherein the inputs of the latches are connected to the outputs of respective comparators for recording passage of the corresponding threshold voltages by the rising edge of a pulse (p. 3, l. 41-62),

- a priority encoder connected to the latch outputs for determination of a pulse height category consisting of pulses with a pulse height within a pulse height interval defined by respective threshold voltages (p. 3, l. 2-p. 4, l. 8), and
- a micro controller that is adapted to count the number of pulses within each pulse height category (p. 4, l. 93-128).
- 2. Likewise, dependent claims 3-7 are not novel in the sense of Article 33(1) and (2) PCT, since their technical features are also anticipated by D1 (c.f. passages cited above and in the search report; p. 2, I. 121-124: concerning claim 5 and p. 5, I. 82-87 concerning claim 6).

3. Dependent claims 2 and 8-10 do not contain any features which, in combination with the features of any claim to which they refer, meet the requirements of the PCT in respect of inventive step (Article 33(1) and (3) PCT), see documents D1-D3 and the corresponding passages cited in the search report (D3: against sub-claims 2 and 9 in combination with D1), and present state-of-the-art knowledge of the skilled person (claims 8 and 10).

Documents D2 and D3 disclose:

- D2: a pulse height analyser for analysing pulses from a Coulter device with a leading edge trigger;
- D3: a pulse height analyser for Coulter device with variable thresholds of a digitising circuit to adapt to different absolute amplitude values.